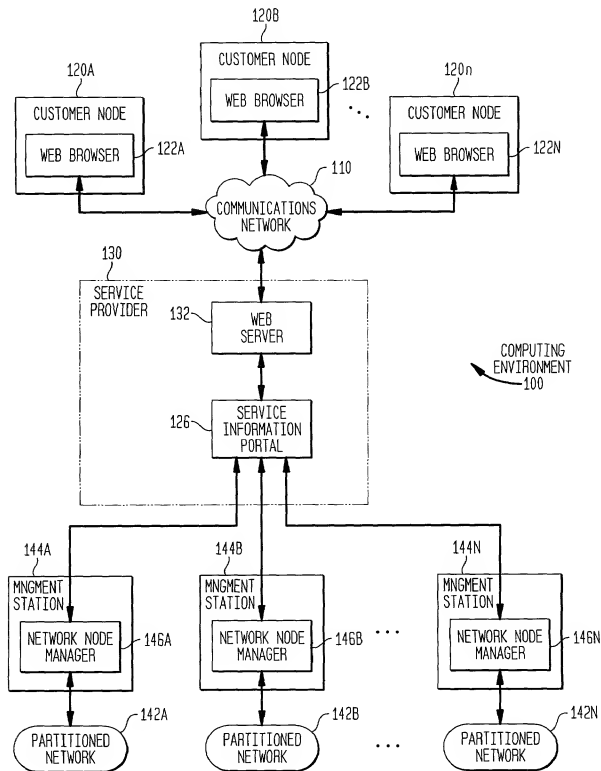


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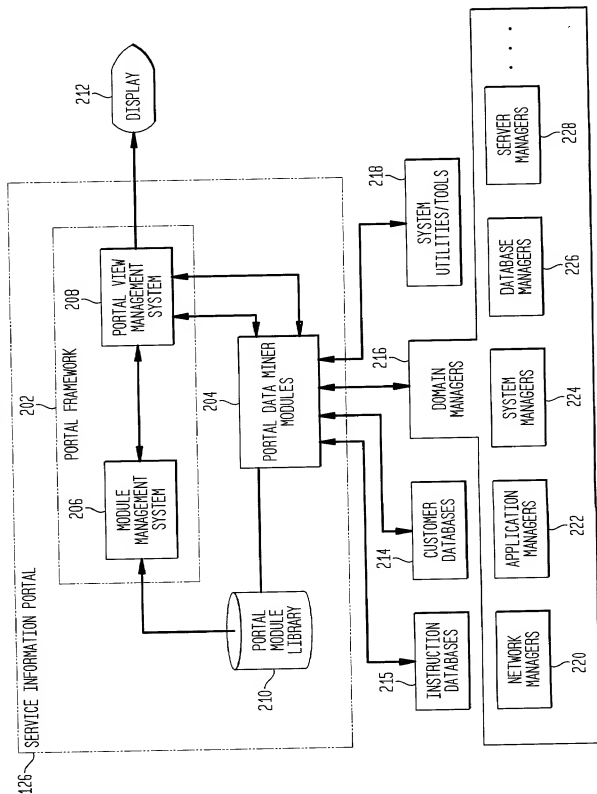
FIG. 1



Inventor(s): Robert Raymond

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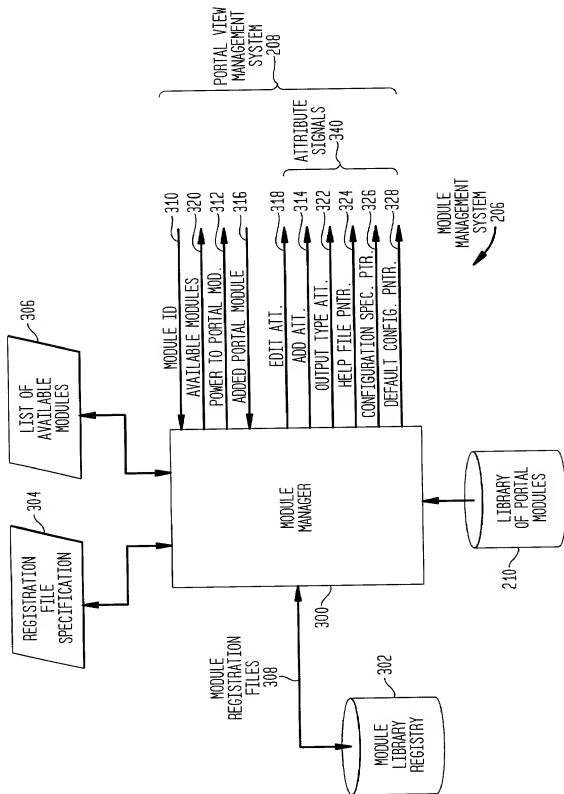
FIG. 2



Inventor(s): Robert Raymond

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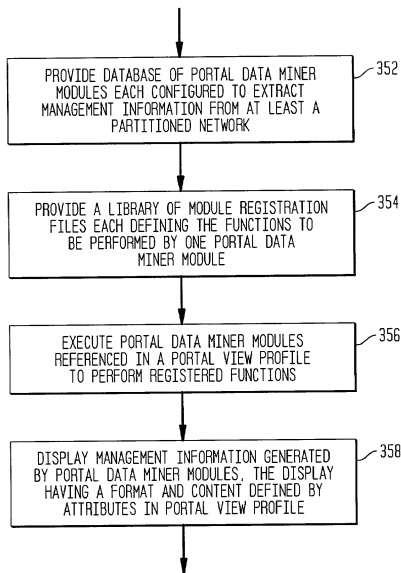
FIG. 3A



Inventor(s): Robert Raymond

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FIG. 3B



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FIG. 4

MODULE REGISTRATION
FILE SPECIFICATION
400

```
1 <!-- OVModuleRegistration.dtd -->
2 <!-- Copyright (c) 2000 Hewlett-Packard
3 Company -->
4 <!-- $Revision: /main/BACCHUS/8 $ -->
5 <!-- $Date: 2001/03/15 00:13 UTC $ -->
6 -----
7 <!ELEMENT ModuleRegistration EMPTY>
8
9 <!ATTLIST ModuleRegistration
10     vendorName      CDATA #IMPLIED
11     vendorURL       CDATA #IMPLIED
12     description     CDATA #IMPLIED
13     version         CDATA #IMPLIED
14     category        CDATA "General"
15     title           CDATA #IMPLIED
16     classid         ID #REQUIRED
17     implementation  CDATA #REQUIRED
18     outputType      (narrow|NARROW|wide|WIDE|any|ANY) "narrow"
19     add              (1|0|YES|yes|NO|no) "no"
20     edit             (1|0|YES|yes|NO|no) "no"
21     help            CDATA #IMPLIED
22     configDTD       CDATA #IMPLIED
23     defaultConfigXML CDATA #IMPLIED>
```

HEADER DATA 402

404

ATTRIBUTE LIST 406

Inventor(s): Robert Raymond

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FIG. 5

NETWORK HEALTH MODULE
REGISTRATION FILE

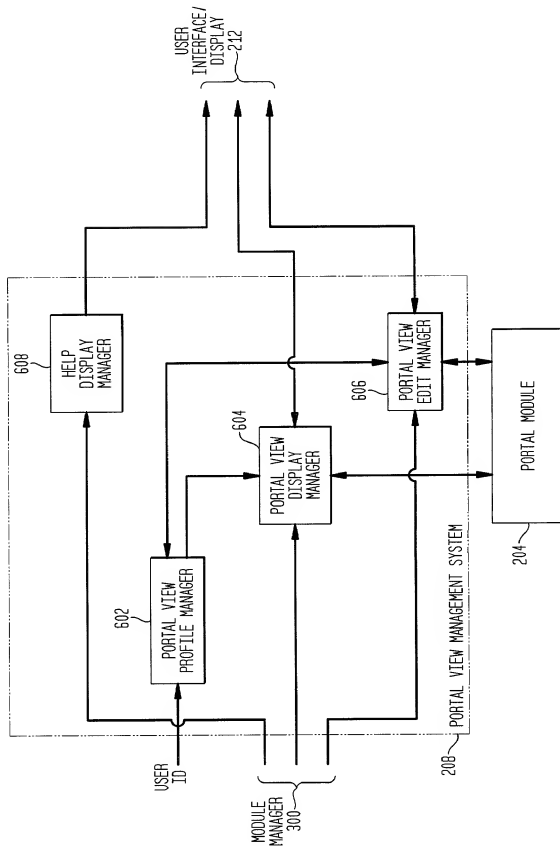
500

```
1 <?xml version="1.0" standalone="no"?>
2 <!DOCTYPE ModuleRegistration SYSTEM
3 "OVModuleRegistration.dtd">
4 <ModuleRegistration
5   vendorName  = "Hewlett-Packard
6     Company"
7   vendorURL   = "http://www.
8     openview.hp.com"
9   description = "HP OpenView SIP Network
10     Device Health Module"
11   version     = "2.0"
12   category    = "NNM"
13   title       = "Network Device
14     Health"
15   classid     = "com.hp.ov.portal.
16     modules.health"
17   implementation
18     = "/servlet/com.hp.ov.
19     portal.modules.health.
20     HealthServlet"
21   outputType  = "narrow"
22   add         = "yes"
23   edit        = "yes"
24   help        = "/OvSipDocs/C/help/
25     NNM/healthView.html"
26   configDTD   = "OVNetworkHealth.dtd"
27   defaultConfigXML
28     = "defaults/
29     OVDefaultNetHealth.
30     xml"
31 />
```

Inventor(s): Robert Raymond

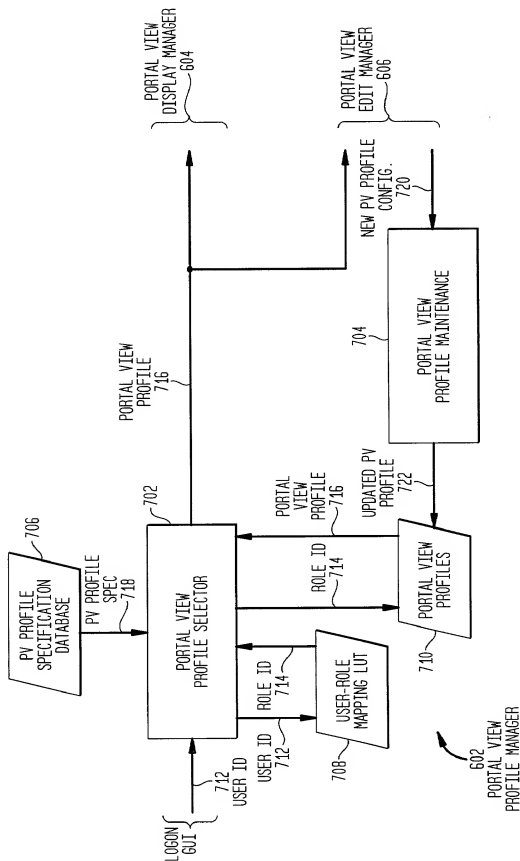
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FIG. 6



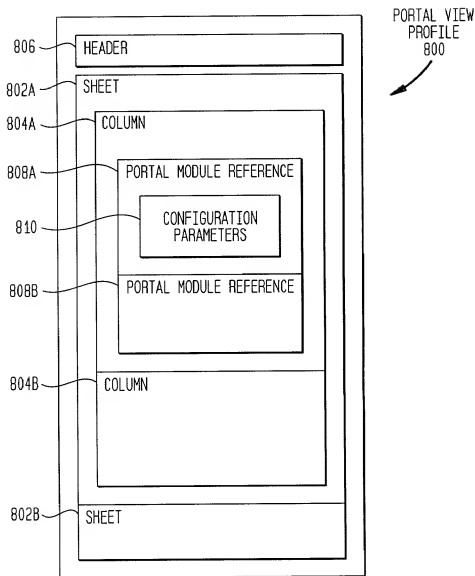
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FIG. 7



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FIG. 8



Inventor(s): Robert Raymond

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FIG. 9

NETWORK HEALTH PORTAL
VIEW PROFILE SPECIFICATION

900

```
1 <!-- OVNetworkHealth.dtd                                HEADER
2 <!-- Copyright (c) 2000 Hewlett-Packard                902
3 Company
4 <!-- $Revision: /main/BACCHUS/7 $
5 <!-- $Date: 2001/04/11 20:41 UTC $
6 <!--
7 <ELEMENT NetworkHealth (Summary+)>                     NETWORK HEALTH
8 <!ATTLIST NetworkHealth                                ELEMENT SPEC.
9   showRawData      (yes|no|YES|NO|1|0) "no"           904
10  showUnknown      (yes|no|YES|NO|1|0) "no"
11 >
12
13 <ELEMENT Summary (Component+,                           SUMMARY ELEMENT
14 (NodeSelection | InterfaceSelection))>                SPEC.
15 <!ATTLIST Summary                                     906
16   id               CDATA #REQUIRED
17   title            CDATA #REQUIRED
18   display           (yes|no|YES|NO|1|0) "yes"
19   displayDepth     (1|2|3) "3"
20 >
```

Inventor(s): Robert Raymond

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FIG. 10

FIGURE 10A
FIGURE 10B
FIGURE 10C
FIGURE 10D
FIGURE 10E
FIGURE 10F
FIGURE 10G

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FIG. 10A

PORTAL
VIEW PROFILE
1000

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <!DOCTYPE PortalView SYSTEM
3  ". /PortalView.dtd">
4  <PortalView
5  colorScheme="/OvSipDocs/styles/default.css"
6  defaultSheetID="NetworkSheet"
7  refreshRate="5000" showDateTime="yes"
8  showUserName="yes" userName="Any User">
9    <Sheet id="NetworkSheet" title="Network">
10     <Column width="narrow">
11     <ModuleInstance
12     classid="com.hp.ov.portal.modules.health"
13     display="yes" id="NetworkHealth"
14     rollopState="down">
15       <NetworkHealth showRawData="no"
16       showUnknown="no">
17         <Summary display="no"
18         displayDepth="3" id="InterfaceHealth"
19         title="Interface Health">
20           <Component href="#IfStatus"
21           vital="yes" weight="2"/>
22           <Component href="#IfUtil"
23           vital="no" weight="1"/>
24           <Component href="#IfInErrors"
25           vital="no" weight="1"/>
26           <Component
27           href="#IfOutErrors" vital="no" weight="1"/>
28           <InterfaceSelection
29           id="AllInterfaces" op="AND" title="All
30           Interfaces"/>
31         </Summary>

```

HEADER
1002PORTAL VIEW
WINDOW
ATTRIBUTES
1004PORTAL MODULE
REFERENCE
1006A

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FIG. 10B

PORTAL
VIEW PROFILE
1000PORTAL MODULE
REFERENCE
1006A (CONT)

```

32 <Summary display="yes"
33 displayDepth="3" id="RouterHealth"
34 title="Router Health">
35 <Component href="#IfHealth"
36 vital="no" weight="1"/>
37 <Component
38 href="#CiscoCpuUtil" vital="no" weight="1"/>
39 <NodeSelection id="Routers"
40 op="AND" title="Routers">
41 <CapabilityFilter op="OR">
42 <Capability
43 field="isRouter" value="true"/>
44 </CapabilityFilter>
45 </NodeSelection>
46 </Summary>
47 <Summary display="no"
48 displayDepth="3" id="KeyDeviceHealth"
49 title="Key Device Health">
50 <Component href="#IfHealth"
51 vital="no" weight="1"/>
52 <NodeSelection
53 id="KeyDevices" op="AND" title="Key Devices">
54 <CapabilityFilter op="OR">
55 <Capability
56 field="isKeyDevice" value="true"/>
57 </CapabilityFilter>
58 </NodeSelection>
59 </Summary>

```

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FIG. 10C

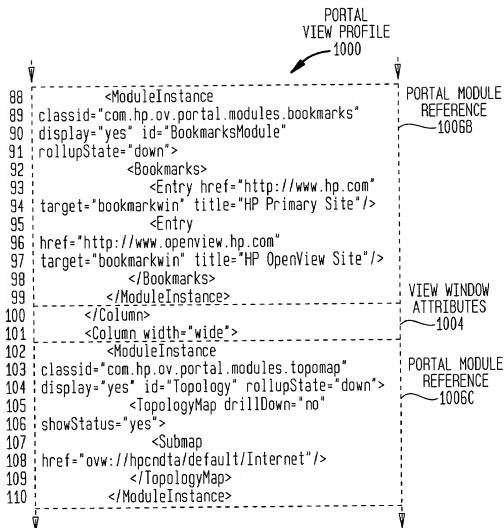
PORTAL
VIEW PROFILE
1000

PORTAL MODULE
REFERENCE
1006A (CONT)

```
60      <Summary display="no"
61 displayDepth="3" id="CPEHealth" title="CPE
62 Health">
63      <Component href="#IfHealth"
64 vital="no" weight="1"/>
65      <NodeSelection id="CPE"
66 op="AND" title="Customer Premise Equipment">
67      <CapabilityFilter op="OR">
68      <Capability
69 field="isCPE" value="true"/>
70      </CapabilityFilter>
71      </NodeSelection>
72      </Summary>
73      <Summary display="no"
74 displayDepth="3" id="ServerHealth"
75 title="Server Health">
76      <Component href="#IfHealth"
77 vital="no" weight="1"/>
78      <NodeSelection id="Servers"
79 op="AND" title="Servers">
80      <CapabilityFilter op="OR">
81      <Capability
82 field="isServer" value="true"/>
83      </CapabilityFilter>
84      </NodeSelection>
85      </Summary>
86      </NetworkHealth>
87      </ModuleInstance>
```

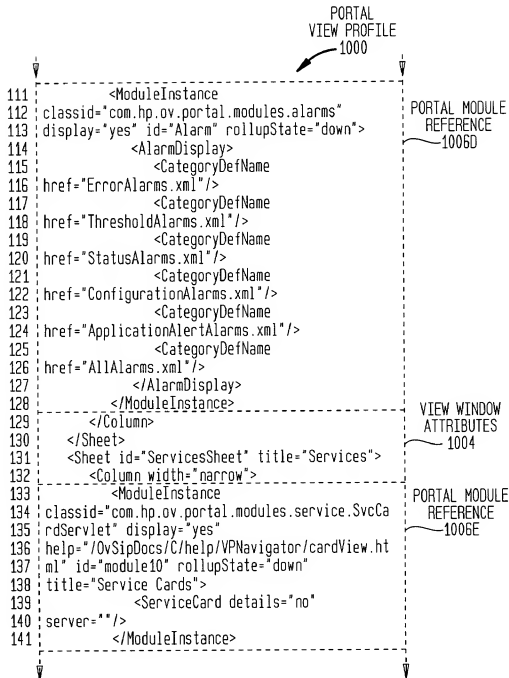
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FIG. 10D



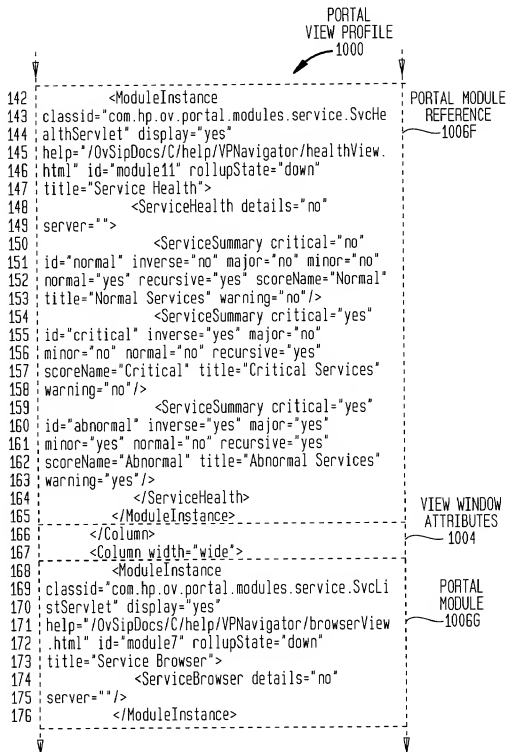
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FIG. 10E



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FIG. 10F



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FIG. 10G

PORTAL
VIEW PROFILE
1000

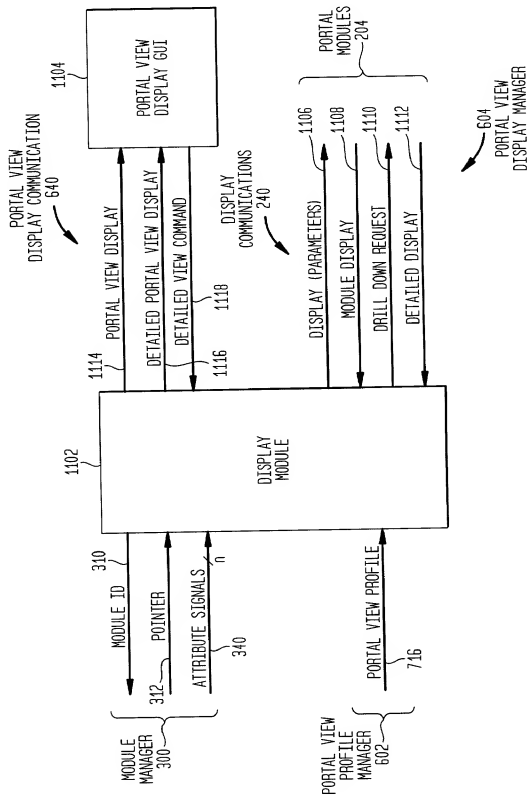
177 <ModuleInstance
178 classid="com.hp.ov.portal.modules.service.SvcGr
179 aphServlet" display="yes"
180 help="/OvSipDocs/C/help/VPNavigator/graphView.h
181 tml" id="module8" rollupState="down"
182 title="Service Graph">
183 <ServiceGraph server=""/>
184 </ModuleInstance>
185 </Column>
186 </Sheet>
187 </PortalView>

PORTAL MODULE
REFERENCE
1006H

VIEW WINDOW
ATTRIBUTES
1004

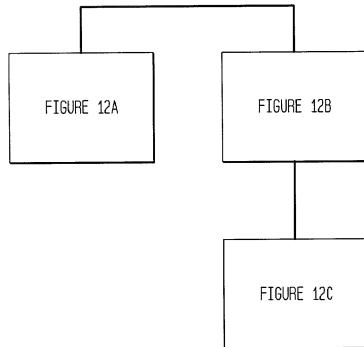
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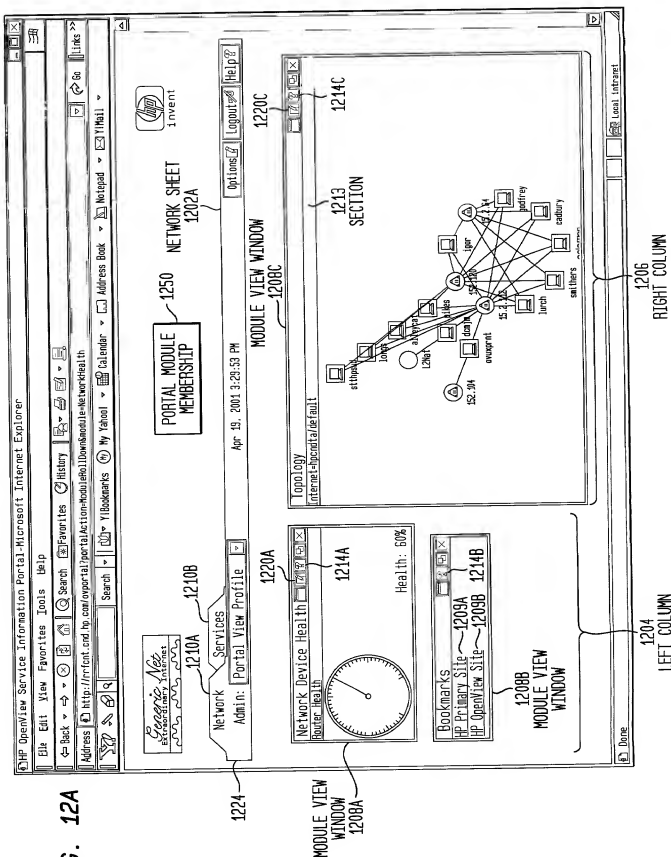
FIG. 11



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FIG. 12



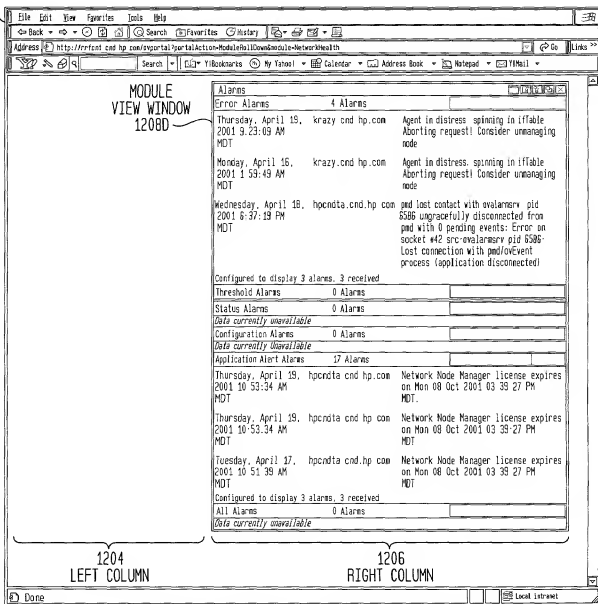


System And Method For Managing Data
Miner Modules In An Information
Network System

Inventor(s): Robert Raymond

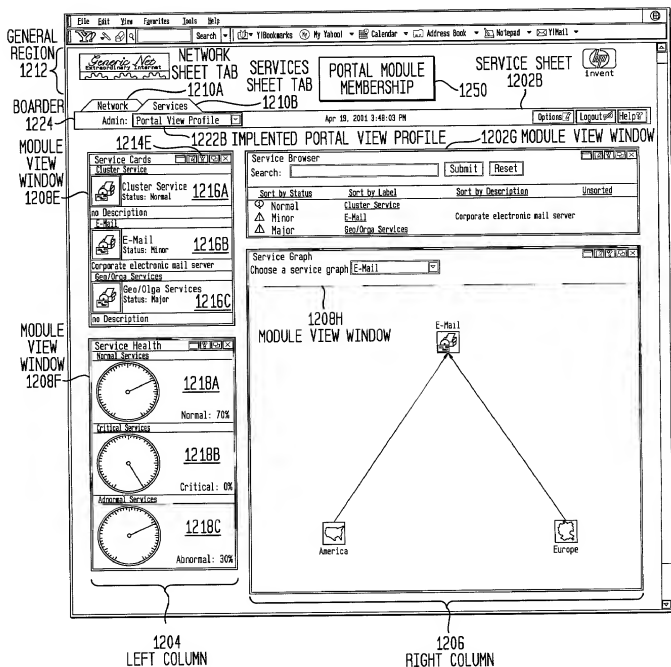
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FIG. 12B

NETWORK
SHEET
(CONT)
1202A

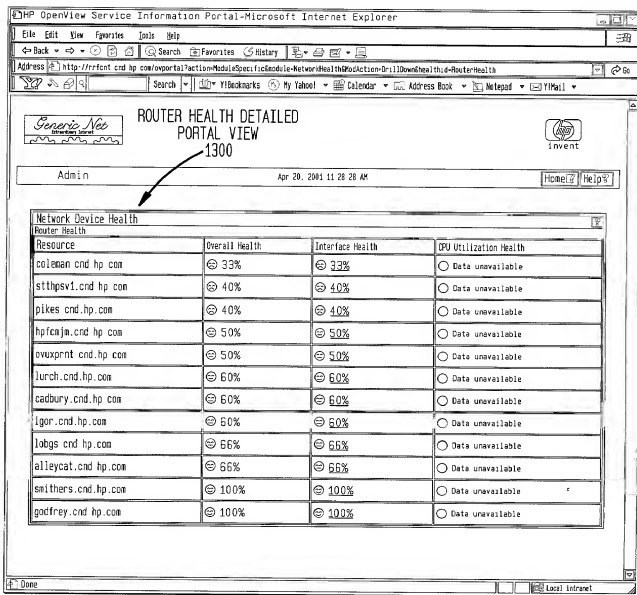
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FIG. 12C



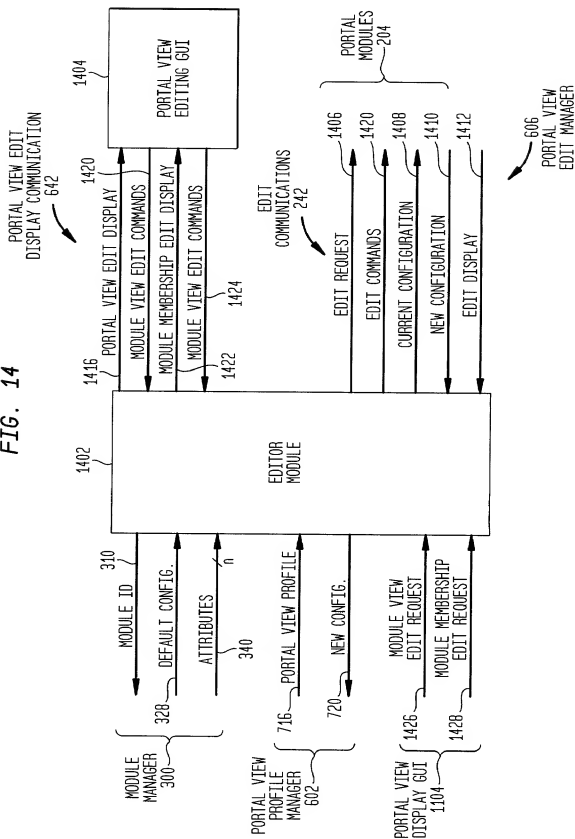
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FIG. 13



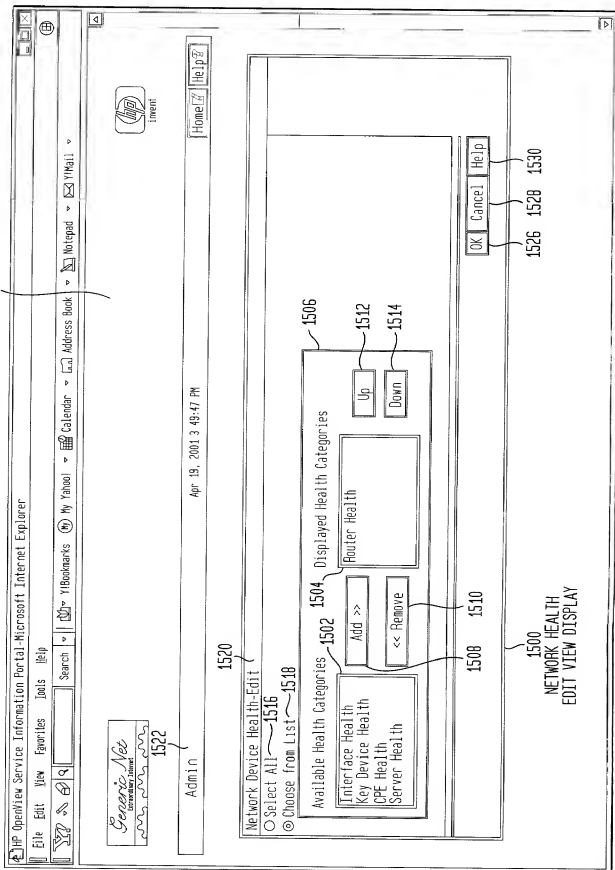
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FIG. 14



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FIG. 15



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FIG. 16

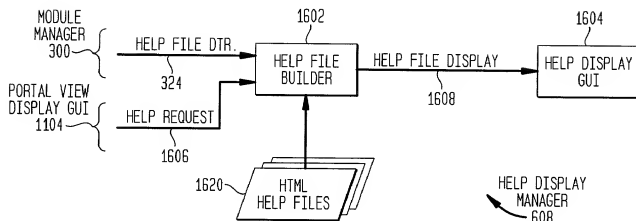
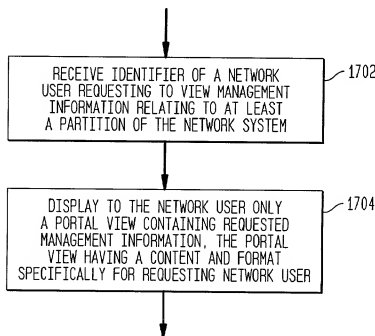
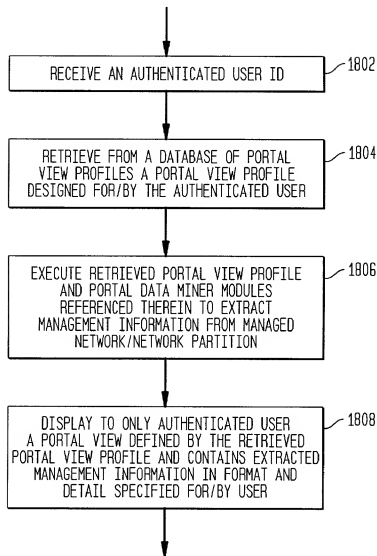


FIG. 17



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FIG. 18



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FIG. 19

